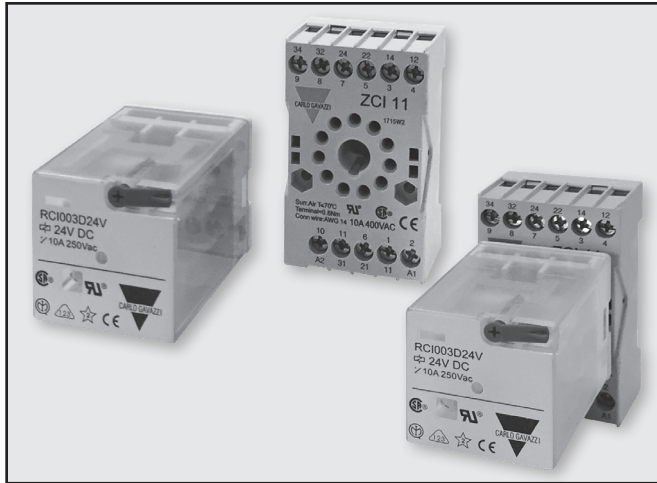


# Industrial Relay Type RCI Monostable



- 8 or 11- pin socket mounting
- 2 or 3 change over contacts
- 10A maximum switching current
- 250 VAC/VDC maximum switching voltage
- AC coils 12 ~ 240 VAC
- DC coils 12 ~ 110VDC
- Electrical life of 100,000 cycles
- Mechanical life of 10,000,000 cycles
- DIN sockets with two terminal layout options
- Standard indicating LED, push arm and test flag
- UL, CSA, CE, ROHS approvals

## Product Description

The RCI is an industrial relay available in 2 or 3 change over contacts that can be used in a wide range of applications. It is

## Ordering Key

**RCI 003 A 24V**

Type \_\_\_\_\_  
 Contact Code \_\_\_\_\_  
 Coil Type \_\_\_\_\_  
 Coil Voltage \_\_\_\_\_

## Product Selection



## Type Selection

| Type | Contact Code | Coil Type | Coil Voltage                   |
|------|--------------|-----------|--------------------------------|
| RCI  | 002 - DPDT   | A - AC    | 12V, 24V, 48V, 120V, 240V AC   |
|      | 003 - 3PDT   | D - DC    | 5V, 6V, 12V, 24V, 48V, 110V DC |

## Product Selection

| Part Number | Contact Code                              | Coil voltage | Stock Code |
|-------------|---|--------------|------------|
| RCI002A12V  | DPDT<br>2 change over<br>contacts, 8-pins | 12 VAC       | D          |
| RCI002A24V  |   | 24 VAC       | A          |
| RCI002A48V  |   | 48 VAC       | D          |
| RCI002A120V |   | 120 VAC      | A          |
| RCI002A240V |   | 240 VAC      | A          |
| RCI002D5V   |   | 5 VDC        | A          |
| RCI002D6V   |   | 6 VDC        | D          |
| RCI002D12V  |   | 12 VDC       | A          |
| RCI002D24V  |   | 24 VDC       | A          |
| RCI002D48V  |   | 48VDC        | D          |
| RCI002D110V | 110 VDC                                   | D            |            |

| Part Number | Contact Code                               | Coil voltage | Stock Code |
|-------------|--|--------------|------------|
| RCI003A12V  | 3PDT<br>3 change over<br>contacts, 11-pins | 12 VAC       | D          |
| RCI003A24V  |  | 24 VAC       | A          |
| RCI003A48V  |  | 48 VAC       | D          |
| RCI003A120V |  | 120 VAC      | A          |
| RCI003A240V |  | 240 VAC      | A          |
| RCI003D5V   |  | 5 VDC        | A          |
| RCI003D6V   |  | 6 VDC        | D          |
| RCI003D12V  |  | 12 VDC       | A          |
| RCI003D24V  |  | 24 VDC       | A          |
| RCI003D48V  |  | 48VDC        | D          |
| RCI003D110V | 110 VDC                                    | D            |            |

## Contact Characteristics

|                            |                  |
|----------------------------|------------------|
| Arrangement:               | DPDT, 3PDT       |
| Contact Rating:            | 10A 250VAC/30VDC |
| Hp rating at 240VAC        | 1/3 Hp           |
| Maximum Switching Voltage: | 250VAC / 250VDC  |
| Minimum Switching Current: | 100mA 5VDC       |

|                         |                                     |
|-------------------------|-------------------------------------|
| Material :              | AgSnO2                              |
| Contact Resistance:     | ≤ 100 mOhms (at 6 VDC 1A)           |
| Reaction Time to Close: | ≤ 20ms                              |
| Reaction Time to Open:  | ≤ 20ms                              |
| Electrical Life:        | 100,000 cycles (1800 per hour)      |
| Mechanical Life         | 10,000,000 cycles (18,000 per hour) |

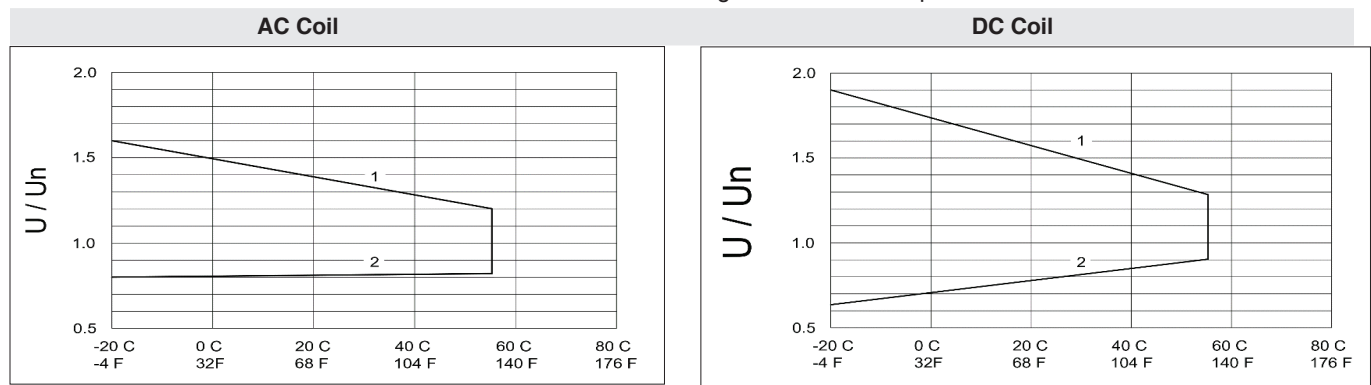
# Industrial Relay Type RCI Monostable



## Coil Characteristics

| AC Coil   |                 |                     |       |                 |               | DC Coil   |                 |                     |       |                 |               |
|-----------|-----------------|---------------------|-------|-----------------|---------------|-----------|-----------------|---------------------|-------|-----------------|---------------|
| Coil Code | Nominal Voltage | Pick-up<br>at +23°C |       | Coil Resistance | Coil Power    | Coil Code | Nominal Voltage | Pick-up<br>at +23°C |       | Coil Resistance | Coil Power    |
|           |                 | ≥ VAC               | ≤ VAC |                 |               |           |                 | ≥ VAC               | ≤ VAC |                 |               |
| 12V       | 12V             | 80%                 | 30%   | 18              | aprox.<br>2.8 | 5V        | 5V              | 80%<br>10%          |       | 15.6            | aprox.<br>1.6 |
| 24V       | 24V             |                     |       | 72              |               | 6V        | 22.5            |                     |       |                 |               |
| 48V       | 48V             |                     |       | 288             |               | 12V       | 90              |                     |       |                 |               |
| 120V      | 110/120V        |                     |       | 1650            |               | 24V       | 360             |                     |       |                 |               |
| 240V      | 220/240V        |                     |       | 6800            |               | 48V       | 1440            |                     |       |                 |               |
|           |                 |                     | 110V  | 7000            |               |           |                 |                     |       |                 |               |

Minimum and Maximum Coil Voltage vs Ambient Temperature



- 1- Maximum coil voltage vs. temperature
- 2- Minimum coil voltage vs. temperature

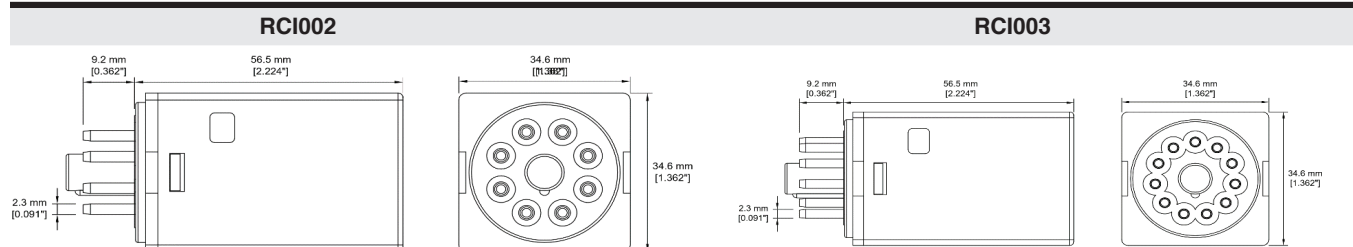
## Insulation

|                                     |  |
|-------------------------------------|--|
| Between Open Contacts (1mA leakage) | ≥ 1000 VAC for 1 minute<br>≥ 1200 VAC for 1 second |
| Between Contact and Coil and        | ≥ 1500 VAC for 1 minute                            |
| Contact to Contact (1mA leakage)    | ≥ 1700 VAC for 1 second                            |

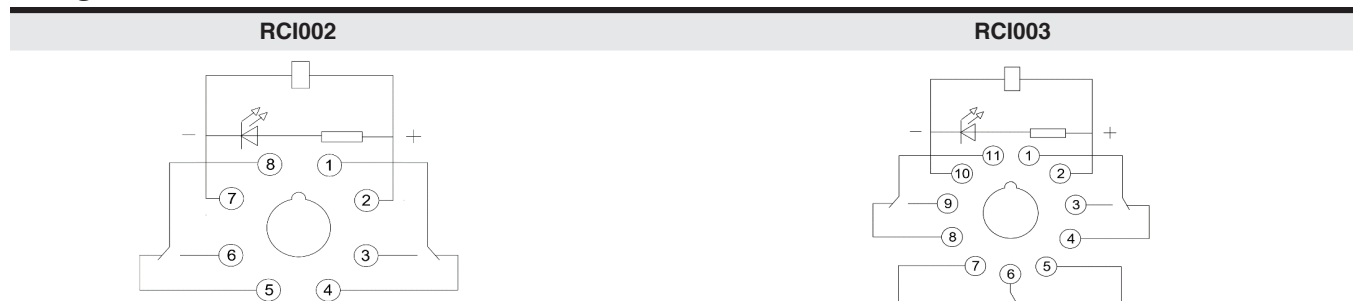
## Environmental Specifications

|                         |               |
|-------------------------|---------------|
| Operational Temperature | -40°C ~ +55°C |
| Operational Humidity    | 35% ~ 85%     |
| Storage Temperature     | -40°C ~ +55°C |
| Storage Humidity        | 20% ~ 85%     |

## Dimensions



## Diagram



# Industrial Relay Type RCI Monostable



## Accessories

| Part Number | Description  | Stock Code |
|-------------|--|------------|
| ZCI08       | DIN Socket for RCI002 relay without holding spring   | A          |
| ZCI11       | DIN Socket for RCI003 relay without holding spring   | A          |
| ZCIK53      | Metal holding spring for for ZCI08 and ZCI11 sockets | A          |

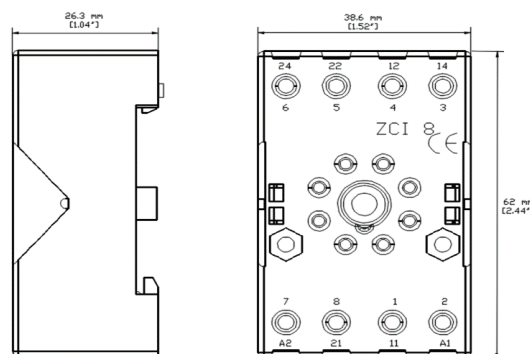
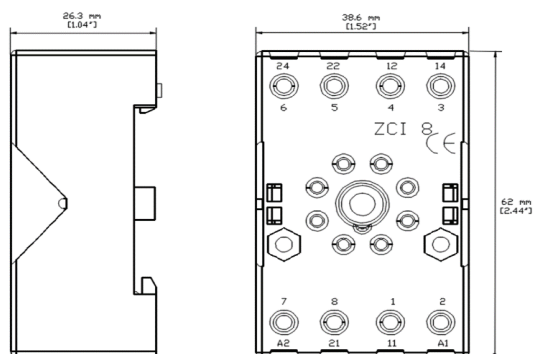
## Socket Specifications

|                                |                                     |
|--------------------------------|-------------------------------------|
| Arrangement:                   | 8-PIN, 11-PIN                       |
| Insertion and extraction force | 30-130 N (8-PIN), 40-150 N (11-PIN) |
| Max screw torque               | 0.8Nm (7.1 lb-inch)                 |
| Dialectric strength            | > 2000V                             |

|                         |                                     |
|-------------------------|-------------------------------------|
| DIN-rail standard       | 35 mm                               |
| Load capacity           | 400VAC, 10A                         |
| Operational temp. range | -40°C ~ +85°C                       |
| Wire size range         | 20-14 AWG / 0.5-2.5 mm <sup>2</sup> |

ZCI08

ZCI11



## Agency Approvals



E489542  
E489543

269657